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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/721,980	11/24/2003	David W. Ow	02307B-099030US	6995	
20350 TOWNSEND AND TOWNSEND AND CREW, LLP TWO EMBARCADERO CENTER EIGHTH FLOOR SAN FRANCISCO. CA 94111-3834			EXAM	EXAMINER	
			KETTER, JAMES 8		
			ART UNIT	PAPER NUMBER	
			1636		
			MAIL DATE	DELIVERY MODE	
			12/08/2009	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/721,980 OW ET AL. Office Action Summary Examiner Art Unit James S. Ketter 1636 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 03 August 2009. 2a) ☐ This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.3.6-12.36.37.43-45.47-55 and 57-72 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 36.37,43-45 and 47 is/are allowed. 6) Claim(s) 1.6-8.10-12.48-55 and 58-71 is/are rejected. 7) Claim(s) 3.9.57 and 72 is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 24 November 2003 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SB/08)

Interview Summary (PTO-413)
 Paper No(s)/Vall Date

6) Other:

5) Notice of Informal Patent Application

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Several pieces of prior art have been discovered, and are applied below in the new grounds or rejection. The delay in discovering and applying this art is regretted.

Claims 3, 9, 57 and 72 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Claims 36, 37, 43-45 and 47 are allowed.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1,6-8,10-12,48-55 and 58-71 are rejected under 35 U.S.C. 103(a) as being unpatentable over Crouzet et al. (A on the PTO-892 mailed 16 February 2006) in view of Bebee

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et al. (A, newly cited on the attached PTO-892) and any of: Crellin et al. (U, newly cited) or Carrasco et al. (V, newly cited) or Sato et al. (W, newly cited) or Hartley et al. (B, newly cited).

The invention of the instant claims was described previously on the record, except that now the claimed invention is limited at the broadest to recombinases phiC31, P4, Listeria phage recombinase, R4 Sre, CisA, XisF or Tn4451 TnpX.

Crouzet et al. was applied previously against the claimed invention as then claimed.

Crouzet et al. differs from the claimed invention in not teaching the specifically recited recombinases, or their use as recombinases in plant or yeast cells. Bebee et al. teaches, e.g., at the last full paragraph at column 6 and the paragraph bridging columns 6 and 7, that the recombination method taught therein may make use of recombinases from eukaryotes or prokaryotes, including bacteriophage, in yeast or plant cell hosts. Crellin et al. generally teaches the use of Tn4451 TnpX recombinase. Carrasco et al. generally teaches the use of the xisF recombinase. Sato et al. generally teaches the use of cisA recombinase. Hartley et al. teaches, e.g., at column 15, fifth paragraph, that P4 recombinase may be used in recombinant methods.

The substitution of one known element (one of the recombinases of Crellin et al.,

Carrasco et al., Sato et al. or Hartley et al.) for another (FLP recombinase of Crouzet et al.)

would have been obvious to one of ordinary skill in the art at the time of the invention since the

substitution of the recombinases would have yielded predictable results, in view of the teachings

of Behee et al.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to James S. Ketter whose telephone number is 571-272-0770. The examiner can normally be reached on Monday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher Low can be reached on 571-272-0951. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JSK 8 December 2009

/James S. Ketter/ Primary Examiner, Art Unit 1636